A Register of the Weather, Winds, Height of the Mercury in the Barometer, a the first Six Months of the Year One Thouse

						THE SE THE PARTY OF					CONTRACTOR PROPERTY.		1907990.000	***************************************
		Januar	y. {	8. 12. 9	(B	Februar			·- 8		Maic	n <u>j</u>	7. , I :	2 9
	Weather	Winds.	Barom	. Rain	. Weathe	r. Winds.	Eurom:	Rain	<u>. </u>		Winds.	laron	n	aia.
	Froft	W.S.W.	_	07	Froft					Cloudy	s. w.	30.	1.	
	Fair			07 04			30.	06	_	Fair	<i>J.</i> 17.		20	
		2		05	Cloudy	N. E.	C	25		Cloudy Warm	w.s. w. s. w.		18	
	Milling	S.		05 05	Froft	N. L.	29. 9	5		Spring	3. W.		19	
	rog	S. by W.		07	Cloudy Frost	N.E.by E.	7	75	_	Fog	S.		02	
	Cloudy	S.	6	11	Calm	E. S.		66 6	ĺ	Fair	W. by S.	29.	9 <u>.</u> 88	
1				180. 50	Cloudy	F 1 C	3	9	-	Mift			75	
I	Milling	S .		18	Thaw Sleet	E. by S.		60.0	2	Rain Fair	s.w.		65	. 13
I	Calm			22	Snow	-i		0	-	Fair	s.w.		71	
I	and	W. by S .		23 26	Fair Frost	E.		00.0	3	Colder	s.		7° 46	
۱		S. W.			-	()			-	Rain	S. W.		20)	
	Fog Warm	w.		0. 30		N. by E.	0	5 2 0. 0	3	Bluster.	w.		120	85
	Milling			14	Snow	N.	289		_	Fair Fair	w.	-	21	
	Cloudy	W. by N. N. W.		05 05	Snow Cloudy	N. W. by S.	8	30.0	1	Colder	W. by N.		48 57	
						S. by W.	8	3	_	Blufter.	w.		60	-
ı	Cloudy	N. W. N. W.		94 90	Fairer Sleet	s. w.	8	40. 0	,	Froft	N.W.	30.	11	
	Cloudy			82			9	7		Fair	N. by E.		15	
	Sunsh. Rain	S.	\	51 38	Thaw Froft	s. w.		8	1	Frost	E. W.		15	
	Snow .	٥.		10 1. 20			1	5		Fair	s. w.		c8	مجينة والتناق المالة
	Froft	S. W.		02	Frost Fair	S. W. S.W.b.W.		3		Mift.	S. W. S.W.byS.	29.	9 5	
	Thaw Rain	S. S. by E.	28.	00; 95,0• 70	11	10			ı	Fair	S. by W.		76	
	Cloudy		29.	46	Snow	S. by E.	1	55 76 0. 2		Mift	S.	1	65	
	Fair	N.			Rain Fair	S. E. E.		76°0, 2	7	Frost Cloudy	W. by S.		64	
		N.		77	Cloudy	E. by S.		08	-	Rain Fair	N.W.		47	-
	şleet		\ .		Froft			o 8	-	Rain	W. S. W. W. by N.		35 21	
				-	- Thaw		· i	00		Rain	N. by W.		18	-
	Cloudy		/ /	0.1	Warm Cloudy	S.		0 0 9 5		Raill	N. N.		35	32
		N. E.		91 95	Calm	s.		88	-	Froft	Ñ.		59	
	Snow	N. E.		96 3. 2	Rain	S. by W.		87 o. 4 80	.၁	Fair Cloudy	w. w.		48	. 02
	Frost	E. N. E.	<u> </u>	68 94	Mift	- N.		35	-1	Fair			40	
	Cloudy	E.		92	Warm Rain	N. W. E	1 8	35 0. 3	၁	Bluster. Storms	W.	× .	48	
]	-	90	-				-	· · · · · · · · · · · · · · · · · · ·		en Crimin d'u		
	Froft Cloudy	E. N. E. N.E. b.N.		90 91	Cloudy	S. by E. W. S.W.	5	4 2 0. 2	8	Fair Hail	w.		04.0.	8 3
				94	Fair -		6	0		Snow		28,	93	
	Froft Cloudy	N. N. W.		02	Rain Fair	S.		0 20. 2	o	Froft	N. W.	29.	16¦ 30∣	
	Calm		1	04	Rain		5	2		Fair			32	
	Froft	W. S. W.		09	Cloud: Bluiter.	S. by E. S.	3° 2°	o	-	Frost Snow	S. N. W.		10	
1	dair	0		10	Fair		4				W.		16	
			V/Administration of the		Rain	E. by S.	34	0 0		Froft Fair	W. by S. N. W.		27	`
					Fair		39	g'o. og	>		S.W.byS.		41	
Í	air		-		Froft	S. E. E. by S.	46		- 10	Froft Snow	S. S. E.		4-	

ter, and Quantity of Rain falling every Day at Upminster, in Essex, Thousand Six Hundred Ninety Seven.

1	Apri	il. 6. 12 9	1	May	. <i>6</i> .	12. 9.		June	;, 6.]	2. 9
Weather	Winds.	Barom. Rain.	Weather	Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.
Cloudy Warm Fair	N. E. o	29. 83 83 84	William observations of				Fair Hot Rain	S. 0	29. 66 56	
Fair	N. 1. N. E. 2	83 88 87					Rain Shine Rain	S. 0 S. 1 S. 1	42	0. 44
Fair Want of Rain	NE.b.E.1 E. 1	83 82 82			,		Fair Showers	S.by W.o S. 1 S. 1	04	
Misling Cloudy Fair	N. 0	75					Cloudy	S. W. 2 S. 1	18 38 58	7
Cold Fair Milling	N. by E.	68 68 74			-		Cloudy Sultry Hot	S.by W.1	72	
Frost Fair	Е.	73 71 68					Thunder Rain Thunder	E. by S. E. o	8 2 74	1. 13
Proft Dry Sea- fon	Е.	65 67 70					Fog Fair Hot	S. by W. S. W. I S.W. W	70 71 72	0. 02
Frost Warmer	Е.	71 70 71		•			Fair Cloudy	S. 0	56	
Fog Fair Cloudy	w. w.	65 64 64					Fair Rain	S. by E.c S. 1 S. 0	48	
Warm and Fair	E. 0 E. by S. 1	61 60					Fair	S. by E. c S. by W. I S. o		20
Fair Warm Cloudy	E. 0 E. 1 N. by E.2	60 63 6 4					Fair	S. S. E. o	75	Ì
Fair Cloudy Rain	N. N.E. 2 N. by E.	65 67 70.					Cloudy Fair	N. W. 1 N.W.b.W N. W. 0	60	
Cloudy Rain	N. E.	7 ² 2. 3 ⁸ 78 0. 30					Fair	W. o S. W. o S. W. o	4° 3° 2°	4
Fair	N. N.E. o E. by N.o	76 77					Fair Rain	E. 0	3	o. 20
Fair Warm Spr. Day	E. 1	77 77 73					Mifty Fair Hot	E. 0 N. b.W.	4 6	-
Fair Cloudy	E. o N. o	73 75 86					Cloudy	N. 1	7 9	8 0. CI
Fair	N. by W. I	96 96 94	Cloudy Missing Blustr.	S. W. 2	29. 6		Cloudy Fair Sultry	N. W. 1 W.0	9 9	2
Fair Hot Day.	N. 0 E. N.E. 0	93 93 95	Rain Fair	W. 2 W.byN.1	5 6	7 50. 19	Very Drough- ty.	W.by S. W.by S. S. W. o	30. 0	0
The fame		93 80	Fair	W.by S.1 E. 1	7 8 9	5	Hot Rain	S.W.b.W N. by E. N. E. o	9	10. 22
The fame	E. 0 S. 1	69 60	Fair	E.by N.o N. 2	30. 0	9	Cloudy	N. by E.	, ,	2

		Delino, e	Fair	J.	330. 05 39		S.W.byS.	43
air Foft Joudy	s.w.b.w	20	Froft	S. E. E. by S. E.	46 46 40		S. S. E. S. E.	4- 37 0- 52 25
			Fair	E.	36] 37] 45]	Bluft. Cloudy Hazy	E.by N. E.by N. N.N.E.	07 10 24
Cloudy Thaw lain	W. by N.	9. 95 900. 08 95	Rain Fair	E.	47 48 52			
Frost Snow Pair	N. W. N. W. N. N. W.	90 800. 30 68	Hoar Froft Fair Rain	E. S. S.	52 54 60	Froft	N. E.	40,
storm Snow	N.W. by W. N. N. E. N. by E.	64 67 78 95	Fair Rain	S. by W.	68 75 0 04 81	Frost Fair	N. N. N. W. N. by E.	46 54 70 78
∂roft ∂air	E. by N. N. E.	95 97 98	Cloudy Blufter. Fair	S.	84 85 88	Frost Fair	N. by E. 1 S. 1 S. 0	78 30. 02 11
Sharp Froft	N. E. N. by E. N. N. E.	96 96 86	Fair Cloudy Rain	S. W.	88 0. 10	The Same	E. 0 S.E.b.E. 1	11 10 04
Frost	N. E.	77 77 74	Milling Fair Calm	S. S. W. S. S. W.	.93 .97 .98	Same	E. 0	29. 97 98 30. 07
Cloudy Froft	N. E.	65 60	Cloudy Fair Cloudy	s. w.	30. 01 01 0. 03 40	Same Hazy	E. o E. o E. r.	13 15 20
Snow Thaw	S. S. W.	47 31 0. 08 29				Cloudy Cold	NE.b.N.6 N.N.E.1	14 12 12
Frost Fair	S. W. W. W. by S.	41 50 54				Cloudy Warmer	N. 1 N. N. E.	12 12 05
Frost Fair	W. N. N. W. N. by W.	77 0. 05 86 95 3. 61			Total 1. 80	Cloudy	N. I N. by E.	96 0. 02

Place this between Pag. 48, 49.

I IIC IAIIIC	Lo. I	8c		rair.	L. I	8 9	5	Rain	N. E. 0	91 (D. 22
The fame	E. 0 S. 1 S. 0	69 60 52		Fair Cool	E.by N.o N. 2	30. 0	9	Cloudy Cooler	N. by E.2	92 92	
Cloudy Rair Rain Cloudy Rain Fair Fair Rain Fair Rain Rain Rain	E. by S.0 E. by S.1 S. by E. 1 E 1 S. E. 0 E. 0 S. by E. 1 S. E. 5	35 21 10 08 05 15 20 22 27	0. 43 0. 30 0. 62 0. 06	Cloudy Lefs Cold Fair	N. by E.c. N. o N. by E. r N. by E. o N. by E. o N. by E. o E. o E. by N. o N. by E. o N. by E. o	29.	7) 88 1 1 77 77 22 88 83 83 83 83 83 83 83 83 83 83 83 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	Cloudy Much Cooler Fair Cloudy Rain Fair Great	N. 6. 1 N. 0 E. 1 NE.b.N.0 N. 0 E. 1 NE.b.E.1	80 79 79 77	
Thunder Showers Fair	N. N. W. E. by N. E. by N. E. c	32 34 28 27 18		The fame Most Hot and Dry	E. 0	8	8 8	Drought Cloudy Dry	E. I N.E.b.Eo N. E. I E. I	78 78 74 73 71). Io
Cloudy	S.	14	0. 65	The fame	E. o. E. i E. o.		3 3	Sultry Dry	E. 0	71 71 73	0. 05
-				Fair Little Rain Fair Warm	N. 0. N. 1.	. 6 	2	Mift Rain Thunder Mift Hot and	E. 0 E. by S. S. 0	74	29
				dair Hot	S. o. E. o E. I E.	7	3	Dry Dry Burning Day Fair	E. 0 E. 1 S. 0 S. W. 0	85 85 87	D• 97
			80	The fame			6		S. 1	88	
		Total	7. 53	The fame	S. 0	7	3. 20			Total	4. 91

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A Register of the Weather, Winds, Height of the Mercury in the Baromete the last Six Months of the Year One T

to an exercise the substance state and substance that the substance is the substance of the	the last Six	Months of the Tear One
July. 6. 12. 9.		September. 6. 12. 9
Weather Winds. Barom. Rain.	Weather Winds. Barom. Rain	Weather Winds. Barom. Rain.
Rain S S W 29. 75 S W I 72	S. by E. 1 29. 73 Cloudy S. by E. 2 72	Fair E. by N. 1 29. 98 N. E. 2 30. 00
Fair S Wo 700. 24	Rain S. by E.2 65 Fair S. by E.0 630. 51	Cool 29. 98 NE.b.N1 93
2 Same	Showers W.by S 1 65 680. 40	The fame N. E. 2 92
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Rain S. by E 2 69	Hot Sun E.by N.o 88
3 Fair Wo 75	Cloudy W. 3 71. Fair 780. 05	but E. I 89 Cool Air E. 89
Cloudy So 85	Rain S.W.b.S1 69 S.by W.2 65	Fair E. o 84
Hot SW 85	Fairer W. 1. 60 1. 00	Air 80
Fair W o 87	Rain S. W. 2 50	E. 0 80
Breezes W I 99	Fairer S. W. 1 49 0. 79	Hot 83
Hot W.o 29. 95 Ory W.by S.1 94	The fame S. 1 4:	Mist. E. o 83 Fair S. by E.o 85
Diy 90	Cloudy S. by E. 0 45 51 22	Hot 87
7 Hot	Rain E. by N.1 55	The fame E. 2. 83
	N. 2 5c	$ \begin{array}{c cccc} E. \circ & 8 \circ \\ \hline E. \circ & 73 \end{array} $
B Rain S. W. 2 60 Cloudy S. S. W. 1 44 3. 32	Rain N. I 45 1. 0 both N. 2 35 5. 91	The fame
Rain S. W. I 42 0. 75	W. 2. 37	Fair E. by N. 1 68
Cool S. W. 1 43 47 0. 77	48 2. 20	56
Cool W. 1 5°	Cloudy W. 1. 60 0. 39 Rain N. W. 2 65	Cloudy E. I. 43 S. 2 39
N.W.b.W 83	Fairer W., 1 75 3. 07	Rain 400. 10
Rain Warmer S. W. 1 85	Fair W. o. 77 Pleafant W. 1 80	Showers S. by E.o. 38 40
930. 50	Day W.N.W1 82 Cloudy W.by N.o 82	601. 59
S.W.b.W 30. 00	W.by N.o 82	S.by W.2 77
Fair	Mift N. o. 881	Cloudy 70 70 Rain 8. 2. 49
and Hot S. 0 29. 98	Cloudy W. by S. 1 89 Rain. S. by W. 1 830. 33	Rain S. 2. 49 S. 3 38 Fair 63 1. 54
Fair 8.0 90	Cloudy S. W. 2 78	S. 0 67
Cloudy S. W. 1 84	Fair W. 2 88	S. 4 32
Rain N.b.W.1 84 Cloudy W. 1 850. 48	Cloudy S. W. 1 84 Little W.by S.2 81	Fair S. W. 1 46
Fair N. W. o 90	Rain S.W.b.Wr 75	3 30
Cooler W. 1 95 Rain N.W b.W' 94	Cloudy 70 Fair S. 1 62	Fair S. W. 4 28 W.by S.6 32
Thunder 920. 42	Cloudy 53 S. 0 48	Cloudy 2 34
Fair W.byN.o 91 and N.o 93	4,0	Fair W. 3 45 Cool
Cool N.N.W.o 93		0 75 E. by S.0 55
Cloudy Rain N. 1 98		Rain S. S.W. 2 34 3. 10
Missing N. 93		Fair W.byN.o 28
W.NWI 30. 000. 62		Cloudy S. W. 1 50

arometer, and Quantity of Rain falling every Day at Upminster, in Essex, One Thousand Six Hundred Ninety Seven.

[2. 9.		Oaob	er. 7.	12. 9	i S					Decemb	er. 8.	12. 9.
Rain.	Weather	Winds.	Barom.	Rain		r. Winds.	Barom.	Rain.	Weather	Winds.	Barom.	Rain.
M. A CARLON CO.	Cloudy Mifty Warm	N. W. o S. r S. o	29. 75 78		Millling Milty	S. 1	30. 19	1	Hard Frost and Fair	W. b. N. c W. b. N. 2	29. 86 87 89	7 -
10 mg/31.25mg/25mg	Rain Cloudy Warm	S. 0 S. by E.c	77 75). 10	Fair Warm Pleafant	S.S.W.o W·by S.o	1.1		Same	N. 1 N. 0	90 94 99	1
The state of the s	Cloudy	S. by E.c S. 1	51 40		Fair Colder	W. o W.by S.o	04		Same	N. 0 N. N.E.0	30. 05	3
	Rain Fair Cold	SWb.W1 S. W. 2	5°C)• 72.	Fog Cloudy Cold	SW.b.5.2	88		Cloudy Snow Half Inch	N. W. 1 N. N.W.1	29. 98 89	
	Rain Rain	S. 4 S.by W.2	28. 98	(· 12	Day Rain Fair	S. W. 2 W.b. S.2		0. 50	Cloudy Fair	N.b. E. 2 N. N. E. 1	06	
<u>-</u>	Rain Stormy	S. 1 E.&W.S.	29. 13 16 28. 97	o. 57	Rain —	W.byN.1			Fair	NW.b.N3 NW.b.N1	29. 98 99	
		S, &c. 6 S. by E. 1 N. 1	29. 28	1. 36	Cold Cold Cloudy		30. 00 29. 93 91		Snow 6 Snow 8	N. W. o S. o	29. 93 71	
1	Rain	W. 1 S. 2. S. W. 4	58 2 66	2. <u>52</u>	Day Frost	E. by S.0 E. S. E.0	92 95		Inches Fair	Е о	68 84 87	
	Stormy Stormy — Cloudy	5 S. W. 8 W.S.W.4	39		Fair Hard Frost	E. 0	30. 10		Snow Sleet	S. b. E. 1	8 5 64 53	
	Fair Fair	SWb.Wo	51 66 88		Fair Cloudy	N. E. 0	10		Thaw Frost	E. N. E. o E. o	42 55	3. 62
. 10	Pleafant	W.by S.o	30. 00		Frost Fair	Will get	04		Snow	2	46	
59	and Mifty	s. w. 0	2 I 1 8		Rain Fairer	W.by S.1 N. 2	72		Warm Thaw	E. S. E.2 S. b. W.1	10	2. 76 0. 90
. 07	Frost Fair	SWb.Wo	17		Rain Fair Froft	N.by W.2 N. I	700 68 650	0. 02	Rain	S. by E. 2 S. 2	14 04 11	0. 42
الدما	Fair	w. 1	20		Rain Cloudy Froft	N. 1	56	0. 09	Fair Warm Pleafant	S. W. 3 W.S. W3 S. W. 1	33 50 61	
		W.by S.o W.N.Wo	18 18		Snow Sleet All Day	N. E. 2 N. I	40°	. 82	Warm	S. W. 1 W. S.W.1 W. S.W.0	68 67 65	
11.		W.by S.0 N. W. 0	12 12 10		Frost	W.b. S.0	64		Mifty 1	E. 1 E. by N.0	64 64 65	
	Fair 1	W. o N.W.2 N. by W.	06 08 08	14	Hard Froft Fair	NbyW.2	30. 04		Froft	E. by N.1	58 59	
	Same 1	V. by W.o V. by E. 1	27 30 34			N.b. W.2	03 03 00		Froft	E. 0	57 56 62	
10	Fair Colder 1	N. by E. 0 E. by S. 0	·3 ² 33 27		The fame		29. 92 91, 76		. [E. 0	64 72	
		S. W. o N. by E.o	22 28 30		Snow Sleet Rain	S. S. W.2	26	20	Cloudy Warm Day	E. 1	70 68 63	

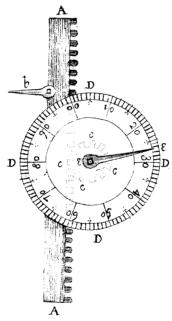
Rain	N. I	98				·		S. W. 2		í. 60
Milling	W.NW1 3			1 -			Fair Cloudy	W.byN.o S. W. 1	38 50	
Cloudy		30	Fair	S.by W.2			Rain Rain	S. I S. W. 3	92	0. 56
Showry	W.by S. 1 25	9. 88	GreatStor. Thun.Ra.	•	60	1. 88	Fair	W.S.W3	02	
Rain 1	W.byW1	75	Cloudy	S. r	60 60		Cloudy	w.s.w ₃	35	
Fair Milling	W.byN.I W. I	71 60	Cloudy		61	0. 13	Rain Cold	S. 1 S. W. 1	28. 98	1
Misty Rain	S.W.b.W	48	Cloudy Missing	W.byS.0 W. 1.	74 84		Fair Shower	S. W. 2	29. 24	
Fair Fair	S.W.b.So S.by W.o	50 0. 45 50,	Fair Fair	W.by S.o	90 92		Fair	S. W. 1	38	0. 09
Cool Day	S. 1 S. 0	48 48	Cloudy	W.by 5.2 S. W. 2.	84		Rain	w.n.w.	_	1
FairThun Great Sh.	S. 1 W. & N.	50 56	- Fair	S. W. 1	82		Fair	S. W. 0 N.	87	,
with Hail Fair	& S. W. o	60 I , 02	Sultry Cloud y	S.W.b.S1	78 70		Rain	E. 0	87	50. 08
Pleafant Day	N. W. 1 W.S.W.0	72 77	Fair	S.W.b.S ₂ S.byW. ₂			Cloudy Milling	S. E. 2.	38	30. 30
Fair	()	76	Rain	S. 3 W.by S.3	29		Fair Rain	N. E. o	38	
Cloudy Milling	W.byS.o	76 69	Fair		54	0. 53	Cold .		-	0. 2
Cloudy	S.by W.o SE.Sb.W	63 60	Fair	S. W. 1 W.by S.2	81 93 98		Fair Cloudy	E. 0 E. by N. 1	2 2	5
Cool	E. by N. 1 N. N. E.2	58 _i	_	S.S.W.o			Rain Fair	N. E. 1	38	0. 8.
The fame	E. by N.2	6 ₂	Fair	S. S.W. 2		f.	Cold Day	N. by E.3	56	l
Fair	N. I	70	Cloudy	S. W. 0	95		Hoar	N.byW.1	6	:
Cool Day	N. 2	76 90	Sultry Very Cl.	E. 0	30, 03		Frost Fair	N.byW.1	78	
The fame	N.byW.o W.byN.1 3	77	Fair	N. E. 0	0	}	Ice Fair Cloudy	N.byW.o	80 82	
1	01-12-1-		Fair		· · · · · · · · · · · · · · · · · · ·	1		1		1
	S. by E. I 2 S. S. E. I S. I	9. 50 0. 2 86 ====================================	and			13. 98				10.4

Place this between Pag. 48, 49.

50	Comer	E. by 5.0	27	1 1			76 ¹	1			72	•
- 11	Hoar Fr.	5. W. o	22	Snow	S. S. W.2		, 26,	[Cloudy		70	
	Mist Fair	N. by E.o	28	Sleet	'			ı	Warm	E. 1	68	
<i>4 </i>		N. W.	30	Rain		28, 8		20	Day	-	63	
	Cold	S. W.	28 26	Cloudy Sleet	N.b.W.2		82		Fog Cloudy	E. 2	50	ì
	Rain	0	23	Cold	N.b.W.3		8 ₂ 93 0.		Colder		44	
14	Cl. 1					· · · · · ·	950.	U1			44	·
- 11	Cloudy	W. S. 1 W.by S.1	15	Cloudy	N. W. 2	9	93		Rain Cloudy	1.		0. 23
- 11	Fair	W.by 3.11	20	Snow	W.by N.1	,	90 0.	18	Cold	E. 1.	51	: :0. 17
[]		W.by S.o	25	Froft	N. 0		95		Rain			0. 02
- 11	Fog	S. W. 0	25	Fair	N. 1		98		Cloudy	E. 1	/ >	0. 02
9			25	S leet		29.	080.	.09	Fair]	90	
-	Cloudy Fair	S. S. W.	2 2	Frost	N. W. 2		11		61 1	S. by E. 1	83	
- 11	Cloudy		15	Fair	ì		0.	13	Cloudy	S. 1	76	1
_11	Cloudy	S. W. 0	06	Snow			_ _			0 1-11	64	
Ш	and	0. 11.0		Fair			- 1	1	Rain	S. by W.2 S. 2.	52 79	9 46
- 11	Warm	,	29. 94	11			36		Stormy	6.	24	o. 56
<u>8</u>	-	S. W. 2	80	Mard	S. 0		36		Fair	W. 3	25	1
	Same	W.S.W.2		Froft	S. 1		37		and	S.W. 2	.40	
30 l		i	74	Dripping	3 }		37 35		Warm	1	61	10. 03
-	Cloudy	S. W. 2	60	Rain	S.E.b.S.2		21/0.	91	Cloudy	W.S.W.2	62	(
	Warm	S. W. 6	52	Fairer	S. E. 2		08		Fair	W.b. S. 2	70	
24	Rain	6	27	Rain			00,0	33	Warm	3	87	
_	Fair	S. W. 2	37 1. 52	Fair	S.b.W. 0		116.	20	Cloudy	W. S. W.2	90	
	Rain Stormy	SWb.W;	34 880. 21	Thaw Rain	S. 1		18		Misling		•	
84	Frost	5. W. o		Cloudy	S. 0	***************************************			Cloudy	01 1/1	82	
- 1	Fair	J. W. 0	30. 08	Warmer	3.0		0.	41	Rain	S. by W.o W. by S.3	66 50	
	Rain		29. 89	Rain			10	ı	Fair	W. by 3.3		ာ ဝဗိ
	Warm	S. W. 4	78	Froft	S. S.W. o		150.	18	Fair	W. 2.		
	Small	'i	0. 02	Fair			19		Cloudy	W.by N. 2	90 97	1
_ []	Showers	3	74				19	[Rain	. 0	97	
	Cloudy	W.by S.5 W. 6	48	Small	W. 1		40		Fair	N. E. 1	30. 10	0. 05
22	Fair	VV. 0	54 72	Frost & Fair	W. by N. 1		54		Cloudy Fair	N. E. 1	15	
- 2	<u> </u>				<u> </u>		77 ¹ 0.		199		2 C	
_	Fair	N. o	30. 04 0. 01		1	~	. 1	6.	Froft	E.O		0. 01
17	and Cool	N. E. 2	26 8. 39	1)		1 ota	al 5.	63	Cloudy Fair	E. b. S.O	15	
1/	1001		20 0. 39	1	·		1	•	[FAIL	·	08	9. 31

Philosoph. Transact. Numb. 237. Tab. 2.

Philos Fransad . M. 237



MI. A Letter of Mr. W. Derham, Rector of Upminster, dated Jan. 13. 169%. to Dr. Sloane, about a Contrivance to measure the Height of the Mercury in the Barometer, by a Circle on one of the Weather Plates, with a Register of the Weather, &c. for the Year 1697.

O my former Observations about the Barometer, give me leave to subjoin a Contrivance for meafuring the Height of the Mercury, which hath lately occurred to my Thoughts, and which in some Cases is more commodious, than that way with a crooked Tube (I spake of.) This way is by a Circle on one of the Weather-plates, of any convenient Diameter. Divide this into 100 Parts (which are to answer the 100 Parts of an Inch.) The Index which pointeth to these Parts, must be driven round by a small wheel, like the Dialwheel of a Watch. This Wheel must be driven round by a strait Piece, like a small Ruler, with Teeth on one Edge thereof; every Inch whereof must contain just the same Number of Teeth as are in the Dial-wheel before mentioned; so as that by the thrusting up and down this toothed Ruler, you may at every Inch turn round the Index once. About the middle of this toothed Ruler, a fine Finger must be fixed to point exactly to the Height of the Mercury. And consequently by raising or depressing this Finger to the Height of the Mercury, you very exactly see, on the Circle, the Parts of an Inch, which the Mercury rifeth or falleth in the Tube, by reafon the Circumference of the Circle is Three or more Inches about.

H This

This Description in Words may perhaps be sufficient,

but to prevent Obscurity, I have added a Figure.

Having proposed the nicest ways I can think of, for measuring the Variation of the Mercury on different Heights, there is one Difficulty (partly suggested to me by a correspondent Friend) which may be resolved hereby, which I have not yet had Opportunity to make trial of, and do therefore recommend it to others. that is, Whether the Mercury bath exactly the same Variation, on one and the same Height, at two different Times: viz. When the Mercury is high, as in fair Weather; or low, as in foul: I am inclined to think, That as the Atmosphere is heavier or lighter, so its pressure being more or less on the same Height, that consequently the Mercury riseth or falleth sometimes more, sometimes less on one and the same Height. As for Instance, If the Mercury finketh, I of an Inch at the Height of 82 Feet, when the Mercury standeth at 30 Inches in the Barometer, I Quære, Whether it will fink so much when the Barometer is at 29 Inches?

- Fig. 1. representeth the Circle and toothed Ruler, without the Interposition of the Weather plate; that the Contrivance may be the better seen.
- A. A. The Ruler with Teeth, made to slide up and down.

6. The little Finger that pointeth to the Mercury's Height (which is placed higher on the toothed Rule than it ought to be, that it may be seen.)

c. c. c. c. The Index or Dial-wheel.

D. D. D. D. The Circle.

e. e. The Index.

The following Table explained, with Remarks upon it.

The First giveth the State of the Weather in the Morning, at Noon, and at Night. The Second the Bearing of the Winds. The Third, the Height of the Mercury in the Barometer, in Inches and Centesimals. The last the Quantity of Rain that fell every Day through a Tunnel of Twelve Inches Diameter, in Pounds and Centesimals of a Pound: At the Bottom of which Column is the Quantity of all the Rain that fell in the Month.

2. Where only one fort of Weather is noted upon one Day, that was the Weather of all the Day; especially if the Barometer be noted three times. The same observe also in the Column of Winds. Thus Jan. 2. it was a Misling Day, Wind S.

3. The uppermost Observation of each Day is the Morning Observation; the middlemost at Noon; the lowermost at Night. Or if a Defect be in any of those Three Places, no Observation was made at that time.

If you meet with [Rain] noted on the Line that parts

every Day, it fignifies rain fell in the Night.

4. The Time of observing at Night, was at Nine of the Clock all the Year. But the Morning Observations were all January at 8 of the Clock; all February, and to March 20. at 7 of the Clock; thence to the End of September at Six of the Clock; all October at Seven; all November and December at Eight: And this is the meaning of the Figures that follow the Name of every Month.

5. The Strength of the Winds is noted in the Column

of Winds, from March 25. The Reason I did it not before, was, because I did not think of it till Mr. Townley suggested it to me, Note, A Cypher signifies a Calm: 1,2,3, &c. denotes the Strength of the Wind; wherefore 5, or 6 is a little Storm; 7, or 8 a great Storm.

6. Where the Weather, Winds, or Rain are noted only in the Morning and at Night, it fignifies the Weather, Sc. all the Morning and Afternoon; especially if the

Barometer was observed at Noon.

7. The Defect of Observations from April 26. to May 16. was occasioned by my Absence in a Journey: Notwithstanding which, I took Care to have the Rain that fell, measured; tho' not on the Days it fell.

8. Forasmuch as the Quantity of Snow falling can't be well observed by the Tunnel, I have therefore in the Table noted the Depth of it on the Ground, as on Dec.

4, Gc.

9. The whole Quantity of Rain that fell through my Tunnel last Year, was 77,60 tb. which is less than fell from the Beginning of March (at which time I began my Rain-Observations) till the End of December, 1696. In which Ten Months there fell here, at Opminster, almost 115 tb. and at Townley in Lancashire (according to Mr. Townley's Observations) above 172 tb. and in the whole Year at Townley 203, 75 tb.

To. My Rain Observations I make with a Tunnel of Twelve Inches Diameter (as I have said) the Rain I measure with a Cylindrical Glass. But for a fuller Description, I refer to Mr. Townley's Account of his Meshod, in one of the Transactions of a former Year.

					ry. 7. 12. 9.												
Weathe	d Winds.	Sarom. Rain.	Weathe	r. Winds.	Barom, Rain.	Weathe	Winds.	scom. da.	Weather	Winds.	Barom. Rain.	Weath	er Winds.	Barom. Rain.	Weather	Winds.	Barom. Ra
Froft	W.S.W.	30. 07	Froft .			Cloudy	s. w.	30. 1		N. E. o		1			Fair	5.0	29. 66
Pair		97 94		· lane	30. 06	Fair	TENES.	20	Fair	N. E. O	83	1	-		Hot Rain		56
_		05	Cloudy	N. E.	05	Cloudy	W. S. W.		Fair	N. I.	88				Rain	5.0	42
Milling	S.	05	Froft	N. E.	29. 95	Warm Spring	s. w.	15	11	N. E. 2	88	11	1 1		Shine Rain	S. 1 S. 1	290.
rog	5. by W.			N.E.by E		Fog	S.	02	Fair Want	NE.b.E.1					Fair	S.by W.o	000.
Cloudy	S.	11	Froft	E. S.	75 66 50	Fair	W. W. by S.	29- 9-	of Rain	E. 1	82	11			Showers	S. 1 S. 1	020
		180. 50	Cloudy	-	20	Mift			Milling Cloudy	N.o	7.5	11-				S. W. 2	18
Milling	S.	18	Sleet	E. by S.	250. 02	Fair	S.W.	65 3. 1	Fair		68	11	1 1		Cloudy	S. 1	38
Calm	-	22	0	i-	20	Fair	S.W.	71	Cold	i	68	11-	-		Cloude	1	
and	W. by S. S. W.	22 23 26	Fair Froft	E.	20,0, 03	Colder	s.	70	Fair Milling	N. by E.	68 74	11			Sultry	S.by W.1	72 83 85
					.,	Rain			Froft						11		THE RESERVE TO STREET
Fog Warm	w.	22 0. 30	Cloudy	N. by E.		Blufter.	w.	12° 8	5	E.	73 71 68	11	1		Rain	E. by S.	85 82 t.
Milling		14	Snow	N.	28. 90	Fair		21	Fair Frost			11			Thunder		74
Cloudy	W. by N. N. W.	05	Snow	N. W. by S.	85 83 0. 01	Colder	W. by N.	57	Dry Sea-	E.	67	11			Fog Fair	S. by W.	71
->en.*:			1	S. by W.		Blufter. Froft	W.	60	fon		70	11			Hot	S.W	75
Cloudy	N. W. N. W.	29. 94	Fairer Sleet	s. w.			N.	30. 01	Froft	E.	74	11			Fair	S.W.b.W	7:
cioucy		90 82			97	Fair	N. by E.		Warmer		71	11			Cloudy	and the second s	56
Sunfh. Rain	s.	38	Thaw Froft	s. w.	29. 90	Froft	E. W.	15	Fog Fair	w. w.	65 64	11			Fair	S. by E.o. S. t	50
Snow	3.	101. 20.			25	Fair	S. W.	c8	Cloudy		64	.11	1	estatus k	Rain	S. 0	5
	S. W.	62	Froft Fair	S. W.	43 52 61	Mift.	S. W. S.W.byS.	29. 95	Warm	E. o E. by S. 1	10	11			Fair	S. by E.o S. by W.1	
	S. by E.	28. 950. 70.	11		61	Fair	S. by W.	75	Fair	1	60	11	1		l ran	5.0	7:
Cloudy	1 1	29. 46	Snow	S. by E.	65 750, 27 94 30, 08	Mift	15.	64	Fair	E. 0	60	11	1			1S.	75
Sair	N.		Rain	S. E.	750. 27	Cloudy	W. by S	60	Warm Cloudy	E. t N. by E.:	63	11		1 1	Fair	S. S. E. o	2.
-	N.	- 77		E. by S.	30, 08	Rain	N.W.	47	Fair	N. N.E.		-			Cloudy	N. W. 1	65
sleet		1. 1	Froft		1	Fair Rain	W. S. W W. by N	35	Cloudy Rain	N. by E.		11		1 1	Fair	N.W.b.W	55
			Thaw			-	N.by W.	- 2	and the second	-	70	-11-	_		-11	N. W. o	
Cloudy		1	Warm	5.	00	Rain	N. N.	350. 3	Cloudy Rain	N. E.	72 2. 3 180. 3	8			Fair	S. W. o	49 - 34 28
	N. E.	91	Calm	Š.	29. 95	Froft	N.	50		N.N.E.	The second secon				Fair	S. W. o	28
Soow	N. E.	963. 20	Rain	S. by W.	870. 40	Fair Cloudy	w.	48	Fair	E. by N.	75 76 77	11			Rain		0
	E. N. E.		Mifft	N.	1.8	distance of the contract of th			Fair	-		-11	_		- Mifty	E. o	38
Cloudy	E. N. E. E.	94 92 90	Warm Rain	N. W.	85 0. 30 85 0. 30	Blufter. Storms	w.	48 48 28	Warm.	E. 1	77	11	1		Fair		45
000-535	1	the state of the s							Spr. Day	-	731	11_		1 '	Hot	N.b.W.4	
riroft	E. N. E. N.E.b.N.	90 91 94	Cloudy	S. by E. W. S.W.	54 62 0. 28	Fair	w.	04 04 8	Frir	E. 3	73			1 1	Cloudy	N. r	78
	1	94	Fair	1	60	Snow	***	28. 93	Cloudy		75 86	_11					1 99
roft	N. N.N. W.	20, 02	Hain Frir	ŝ,	520. 20	Froft	N. W.	29. 15	Sair	N.by W.	96	Cloudy			Cloudy Fair	N. W. I	90
Calm	IN. N.	04	1. 1			Fair	150 172	30	11	N. I	94	Milling Bluftr.	S. W. 2	29. 653.	Sultry	W.0	94
	W.	09 10	Cloudy Bluster. Fair	S. by E.	30 26	Frost Snow	S. N. W.	10	Fair Hot	N.o E. N.E. o	91	Rain	W. 2	57	Very Drough-	W.by S.	98
eair.	S, W.	10	Fair	J.	42	3:10 W	W.	16	Day.	La M.L.	93	Fair	W.byN.a	74	ty.	S. W. o	30. 00
	1		Rain	E. by S.	30	Fraft	W. by S.	27	The fame	P .	93		W.by S.1		Hot	S.W.b.W	
	1	1 1	Fair	5.	390. 05	Fair	N. W. S.W. byS.	41 43	I ne tame	E- I	80	Fair	E. i	85	Rain	N. by E.	91 0
air		1	Froft	S. E.	45	Pront	2.	4.4	11	E. 0	69 60 52	Fair	E-by N.o	99	Cloudy		92
Froft Joudy	s.w.b.w	20	Proft	E. by S.		3 now	S.S.E. S.E.	37/2. 5	The fame	S. 0	60	Cool	N. 2 N. by E.c	30. 02	Cooler	N. I	92
									11-	E. by S.o		11			Cloudy		30. 00
	1		Fair	E.	36 37	Bhill. Cloudy	E.b. N. E.b. N. N.N.E.	07	Fair	E. by S.1	210. 4	Gloudy Cold	N.o N.by E.1	80	Mach		
el 1			575		45	Hazy	N.N.E.	24	Cloudy	S.by E. 1	10	Fair	N.by E.c		Cooler	N. E. I	
Chaw	W. W. by N.	29. 95 900. 08	Rain	E.	47 48 0. 03				Rain	S. 1	050. 3	The fa	N.by E.o	07 07 02	Fair	N. o E. t	01
iain .		900. 08 95 900. 30	Fair Hoay	E.	52			-	Fair Fair	S. E. o	150. 6	-	me N.by E.c E.c old E.by N.c	02	- Clark	NE.b.N.	29. 90
roft	N.W.	800. 30	Frost	8.	52 54	general			Sain	S. by E. 1	220. 0	6 Lefs Co	old E.by N.	29. 98	Cloudy Rain	E. I	80 79 79
eir	N. N. W.	68	Rain	S.	60	Froft	N. E.	40,	Rain	S. E. I.		Fair	E. Dy N.C	001	Fair		
itorm	N.W. by W.	20	Fair Rain	S. by W.	750. 04	Froft	N. N. W.		11	N. N. W	32 1. 2	4 The far	N.by E.c	- 3	Great Drough	NE.b.E	77
now	N. by E. 1	91	Rain		81	Fair	N. by E. N. by E.1	70	Thunder	E. by N.	34		E. 0	88			78
roft	E. E. by N.	95	Cloudy Blufter.		84	Froft	S. 1		Solowers	E. o	28	5 Moft Hot an	d E.o	88	Cloudy	N.E.b.E.	74
PRODUCTION OF THE PARTY OF THE	E by N. N. E.		Fair		88	Fair	S. o	30. 02	Fair	' E. o	1 187	Dry		85	_ _	E. 1	71
sharp eroft	N.E.	96 96	Fair	S.	188	The	E. o S.E.b.E.1	11	Cloudy	Is.	140. 6	5	E.o	83	Sultry	1.	71
FIOIL	N. E. N. by E. N. N. E.	86	Cloudy Rain	s.w.	9: 0. 10	Same	S.E.b.E.1	04	11	1		The fa	E. o.	73	Dry	E. o	71 71 73
		77 77	Milling	S.	93		-	29- 97	- 11			Fair	N.o.	65	Mift	E.o	74
Froft	N. E.	77 74	Fair	S. by W. S. S. W.	07	Same	E. 0	98	1			Little Rain	N. 1.	75	Rain Thunde	E by S.	74 73° 74
Cloudy		65	Cloudy	1	30. 01	Same	E. 0	30. 07		1		Fair	N. o	82	Mift	1	81
Froft	N. E.	60	Fair Cloudy	s. w.	010. 03	Hazy	E. 0	15	11			Warm	S. 0		Hot and	S. r	83
Snow	S.	47	Cloudy	-	40	Cloudy	E. r. NE.b.N.	20	-	-		dair	S. o.	74	Dry	E. 0	86
Thaw	S. W.	310. 08				Cold	N.N.E.I	12				Flot	E.o	75	Eurning	E. 1	85
Frost	s.w.	41		-		Cloudy	N ·	12	- 11	-		- 11	E. 1	73	Fair	S. o.	85 87 88,0
Fair	W. W. by S.	41 50 54				Warmer	N. N. E.	12			0. 80	The fa	me	73 76 80	H	1	88
				-	1		1	05	.				15, 0		Rain	1S. 1	800
Frost Fair	W. N. N. W.	86			Total s. 80	Cloudy	N. 1	9610. 0	2	1	Total 7. 5	The fan		80	11		
Calc		95 3. 61	11		* ment (\$4 00)	Rain	N. by E.	88 2. 6	- 11	4	A WORL 17. C	S III A III Addi	u+ v	-	43161		Total

A Register of the Weather, Winds, Height of the Mercury in the Barometer, and Quantity of Rain falling every Day at Upminster, in Essex, the last Six Months of the Year One Thousand Six Hundred Ninety Seven.

-								-								-		-
1		Jul	v. 6. 12. 9	11	August	6. 12. 9	11 :	Sepremb	er. 6. 12 9	1	Oaob	er. 7. 12. 9	1	Novemb	er. 8. 12. 9	-11	Decembe	er. 8. 12. 9.
1	Weath		Barom. ; Rain.	Michaele	er Winds	Ricom, Rain			Barom. Rain.			larom. lain			Barom. Rain.		455	Barom. Rain.
=	Rain	53 W	29. 75	1	S. by E. 1	29. 73	Fair	E. by N.	20. 08	Cloudy	N. W. o		The second second	THE RESERVE TO SERVE THE PARTY OF THE PARTY	30. 19	Hard	W. b.N.o	29. 861
1	11	SWI	72 700. 24	I Cloudy	S. by E.2 . S. by E.2	72	Cool	N. E. 2 NE.b.N1	30. 00 29. 98	Mifty	S. r S. o	000000	Mifty		15	Fair	d W.b. N.2	87 - 89
1-	Fair	SWO	57	Fair	S. by E.o.	630. 51	1	NE.b.NI	93	Rain	3.0	77 > 10	The second	3.S.W.o	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	N. 1	90
1 2	Same	1000		Shower	W.by Sr	65 68 0. 40	II The fame	N. E. 2	921	Cloudy	S. by E.c		Warm	W-by S.	11	Same	N.o	94
-		SW I- Wb.N	64,	Fair Sain	S. by E 2	69	Hot Sun	E.hv N.o	90	Warm	S. by E.c		Pleafant Fair	100	07	1-	N. 0	30. 05
3	Fair		75!	Cloudy	W. 3	71	but	1.3	89	11	S. 1	4:	Colder	W.by S.	1.29. 99	Same	N. N.E.o	08
-		Wo	84	1	S.W.b.S1	78 c. os		E. o	89	Rain		31 2. 72	Clouds	SW.b.s.		Cloudy	N. W. 1	06
1 4	Cloudy Fair	SWI	85 85	Victoria .	S.by W.2	65	Warmer		84	Fair Cold	SWb.W1 S. W. 2		Cold	SW.0.3	94 88 80	Snow	N.N.W.I	89
1-	Hot	sw	85	and the second second	W. I.	60,1. 00			80	Rain	200000000000000000000000000000000000000	28	Day		80	Half Incl		96
1.	Fair	Wo	87	PORTE	S. W. 2	50		E. 1	78 80	Rain	She Wa	28 06 1. 12	Fair	S. W. 2 W.b. S.2	730. 50	Fair	N.b. E. 2 N. N. E. 1	30. 00
1	Cool Breezes	W r	99	Fairer	S. W. 1	49.0. 79	Hot	E. 0	83	I Main	3.55 14.2	28. 98 29. 13 0. 57		0.0000000000000000000000000000000000000	75			09'
1			29. 95]		S. by W.o. S. 1	47	Mift.	E. 0	1 821	Rain	IS T	1 16		I W by N. I	87	Snow	NW.b.N3	29. 98
6	Dry	W.0 W.by S.1	6.71			1.5.1	Fair	S. by E.c	83	Stormy Fairer	S. I E.&W.S.	28. 97 29. 28 1. 35	Pair	1 6		Fair Sn. 1 Inch	NA.D.NI	30. 00
	Day	W.byN.o	90 86 790. 12	Cloudy	S. by E. o	51	I not	50	87	Rain	S. by E. 1	08	Cold	E. o.	20, 02	Snow 6	N. W. o	29. 93
17	Hot			Rain	E. by N. I	5.5	The fame	E. 2.	83		N. I	13	Cloudy	E. S. E. o	011	Snow 8 Inches	S. o	71
1-	Rain	W by S.o	790. 12	PAIRCE	N. 2	58 > 07		E.o	80	1 600	W. 1	66,	Day Froft	E. by S.o	95	lucies		84
3	Milling Rain	S. W. 1 S. W. 2	60		N- 1	41 1. 0	The fame	2.0	73	Cloudy	S. 2. S. W. 4	640. 10		E.S. E.o	99	Fair	E o	87
-	Cloudy	S. S. W. 1	44 0. 32	both	N. 2	3: 3. 91	1	erowerd)	70 68	Stormy	5	44	Fair			Snow		85
	Rain Cool	S. W. 1 S. W. 1	42 0. 75	Days	W. 2. W.by S.1	37	Fair Cooler	E. by N. I	66	Cloudy	S. W. 8 W.S.W.4	39 51 66	Hard Froft	E. 0	30. 10	Sleet	S. b. E. 1	53
1	rairer	W.NW.o	470. 77	S		48 2. 20		20,14,2	65 55	Fair	_ 2	66	Fair	38.0	10	Thaw	PALE	53 42
	Fair and	W.by N.o.	50	Cloudy Rain	W. 1. N. W. 2	48 2. 20 6 3. 39	Cloudy	E. 1.	43		SWb.Wo			N. E. o	08	Froft Tisaw	E. N. E.o E. o	55 57 3. 62
10	Cool	W. 1 N.W.5.W	43 47 50 7 82	Fairer	W., 1	6: 75 0. 07	Rain	5.2	39 400. IO	Pleafant	W.by S.o	30. 00	Froft Fair		04	Snow	2	46 3. 02
	19990000			Fair 1	W. o. 1						W.by S.cl	20	-	Whyer	29. 73	Rain	E. S. E.2	09 2. 76
11	Rain Warmer	S. W. 1		Pleafant	W. 1	77 85	Showers	S. by E.c. W.S.W.1	40	and		21-		N. 2		Warm	S. b. W.1	10
_			85 92°- 50		W.N.W1 W.by N.o	821	1		65 1. 59		S. W. o	18	Fairer Rain	N.byW.2	720. 78	Thaw	S he P	240. 90
12	1	S.W.b.W	30. 00		W.by N.o	82 82 84	Fair	S.o S.by W.2	75 3. 07	1	3170.WO	.,,	Fair	N. I	700. 02 68 65 0. 15	Linaw	S. 2	04
1	egenes a d			Fair 1	N. 0		Cloudy		77	Fair			Froft		650. 15	Rain	S. W. 3	11 0. 42
	e'air and	1		Cloudy	W. by S.1	80	Kaia	S. 3	49.	Fair	- 1		Rain Cloudy	N. I	62,0. 09	Warm	W.S.W3	33
1.5	Hot	5.0	29. 98	Rain.	S. by W. 11	82°- 33	Fair		63 1. 54	- remember	W. 1	20	Froft		55	Pleafant	S.W. 1	61
		S. o	98	Cloudy	S. W. 2 W. 2	78 *83 88		S. o S. 2	67	Fair and	W.by S.o W.N.Wo	18	Snow Sleet	N. E. 2 N. 1	400. 82	Cloudy Warm	S. W. I W. S.W.I	68
14	Cloudy	S.by W.1 S. W. 1	84	Fair	W. 2	88		5.4	32	Warm		16	All Day		38 480, 50	Day	W. S. W.C	65
-	Rain	N.b.W.1	Contractor of the second	Cloudy	S. W. 1	84	Fair	S. W. I	45	Cloudy Warm	W.by S.o	12	Froft	W.b. S.o	64	Mifty	E. 1	64
15	Cloudy	W. 1 N. W. 0	850. 48	Little Rain	W.by S.21 S.W.b.W.1	81	Rain	2	30	Milling	N. W. 0	12				Warm Day	E. by N.o	64
-							-	,		Cloudy	wol		-	1		Froft	—÷	
16	Rain	W. I N.W b.W	95 94 92 0. 42	Cloudy Fair	S. I	70 62	Fair Cool	S. W. 4 W.by S.6		Fair	N N.W.2	08 0. 14	Froft	NbyW.2	1 !		E. by N.1	58
	Thunder			Cloudy	5.0	53	Cloudy	2	32 34	All the second s	N. by W.	20	Fair		30. 04	Fair Frost		59
	Fair and	W.byN.o N.o	91		3. 0	40	Fair Cool	W. 3	45		N. by E. 1	30	The fame	N.b.W.2	03	Cloudy	E.o	57
	Coo!	N.N.W.o	93 93					0	75			34		. 1	co	Fairer		62
		N. W. 1	95			1		E. by 5.5	22	Cloudy Fair	N. by E. o	-32	The fame	N.N.W.1	29. 92	Mift 1	E.o	64
13	Cloudy Sain	N. 1	89					S. S.W. 2 S. W. 2	34 3. 10 -10 1. 60	Colder	E.by S.o	27	THE MINE		76			72
-	Millioz	N.	91			1	Fair	W.byN.o		Hoar Fr.	S. W. o	22	Snow	S. S. W.2	26,	Cloudy		7º, 68,
19	Cloudy		30. 000. 62	E 4			Cloudy	S. W. 1	38 50 32 0. 55	Fair	N. by E.o	20	Sleet Rain		28. 831. 20	Warm Day	E. 1	68
-				Fair	S.by W.2		Rain	S. U. 3		I roll and a	N. W.	28	Cloudy	N.b.W.2	82	Fog Cloudy	E. 2	50
20	Showry	11: loc 5 1	29. 85	Thun Rad		601. 88	ess	W.S.W3	02	Rain	s. w.	26	Sleet	N h W al	93 c. 01	Colder		
_				Cloudy 1	-		-	3	21.0. 14	Cloudy			-		The state of the s			74
1		W.byW1 W.byN.1	4.5	Ram	S. 1	60 60	Cloudy Rain	W.S.W3	35	1 32 4	W. S. 1	15		N. W. 2	23	Rain Cloudy	E. 1.	450. 23
21	Milling	W. i	Annual Advanced in Advanced in the Control of the C	Cloudy		61 0. 13	Cold	S. W. 1	28. 98	Fair		20		W.by N.1	90 0. 18	Cold Rain		620. 17
State .	Mifty	S.W.b.W	Annual Control of the last of	Cloudy Milling	W.byS.o W. 1.	74 84	Fair		29. 24	Fog	W.by S.o S. W. o	25	Froft Fair	N. o N. I	68	Cloudy		750. 02
22	Rain Fair	S.W.b.So	600 46	Fair	w.	90	Shower	i	38,0. 09	-200		25	Sleet		29. 080. 09	Fair		90
-	Fair	S.by W.o	50,	Fair	W.by S.o W.by S.a	74 84 90 92 83	Fair	S. W. 1	51	Cloudy Fair	S. S. W.	A2	Frost Fair	N.W. 2		Cloudy	S. by E. 1	83
23	Cool Day	S. i S. o	50 48 48	Cloudy	S. W. 2.	84	Rain	w.n.w.	74	Cloudy		15	Snow		0. 13		3.1	83 76 64
-	GaigThon	S. 1	50,	Fair	S 117	82		S. W. 0	87	Cloudy	S. W. 0	cd					S. by W.2	52 0 46 40 00
24	Great Sh.	W. & N.	16	Sultry	S. W. 1	78	Fair	N.	0-	Warm	13	29. 94	Fair		36	Rain Stormy	S. 2.	34 0. 56
-	Fair	& S. W. o	CO.1. 02	Cloud y	S.W.b.S1	70	Rain	E. 0	660. 08	0	S. W. 2	80		S.o	36	Fair	W. 3	
25	Pleafant	N. W. I	65 72 77		S.W.b.S2 S.byW.2	67 54	Cloudy	S. E. 2.	1.02	Same	W.S.W.2	78 74	Froft Dripping	S. 1	37	and W4rm	S.W. 2	40 610. 03
	Day !	w.s.w.o	77				Milling	-		Classia	e				35	_		**********
	Fair	W.byS.o	76	Rain	S. 3 W.by S.3	31	Fair Rain	N. E. o E. 1	38	Warm	S. W. 2 S. W. 6	52	Rain Fairer	S. E. 2	08	Cloudy Fair	W. S. W.2	70
20	Milling	W.035.0	69	Fair		54 0. 53 81	Cold .		390. 24	Rain	6	27	Rain		00/0. 33	Warm	3	87
	Cloudy	S.by W.o	63	g.:	S. W. 1	81	Fair	E. o	27		S. W. 2 SWb.W	37.1. 52	Fair Thaw	S.b.W. o S. 1	110. 20	Cloudy	W. S. W.2	90
27	and Cool	SE.Sb.W E. by N.1	60 60	Fair	W.by S.2	93	Cloudy Sain	E.by N.1	300. 84	Stormy	· · · · · · ·	34 880. 21	Rain		00	Milling	1	82
-		N. N. E.2	58		S. S.W. 0	94	Fair	N. E. 1	38	Froft	5. W. o	30. 08		S. o	0. 41	Cloudy	S. by W.o	66
28	The fame	E. by N.2	62	Fair	S. S.W. 2	94	Cold Day	N. by E.3	561	Fair Rain		29. 89	Warmer Rain		10	Rain Fair	W. by S.3	250. 08
-	Fair	N. I	70	Cloudy	S. W. o	95	Hoar	N.byW.1	63	Warm	S. W. 4	78	Froft	S. S.W. 0	150. 18	Fair	W. 2.	90 08
29	Cool	N. 2	76	Sultry	E. 0	99	Froft	N.byW.1		Small Showers	- 1	C. 02	Fair		19	Cloudy	W.by N. 2	97
	Day	Mhulli	90	Very Cl.	N. E. o	90, 03	Fair Ice	N.byW.o		the second second	W.by S.5	48	Small	W. 1	40	Rain Fair	N. E. 1	97
20	The fame	N.byW.o W.byN.1		Fair		,	Fair	1	82		W. 6	54	Froft &	W. by N.1	54	Cloudy	N. E. 1	30. 100. 05
30	2000000	,)	col		1 1	,	Cloudy		8310. 22	Fair /		72	Fair		7710. 03	Fair		20
	Cloudy	S.by E.t		Fair	- 1		1	1		Fair and	N. o N. E. 2	30. 04 0. 01	1	- 1	Total 62		E. o.	180. 01
31	Warmer Sain	S. S. E.I	79 6. 19	and Air fharp		01 13. 98	1		10.47	Cool	N. E. 2	26 8. 39			Total 5. 63	Cloudy Fair	E. b. S.o	0819. 31
	, warm		13			3, 30, 1						371			- (4)			